

TRANSLATION

## PATENT COOPERATION TREATY

## PCT

## INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

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| Applicant's or agent's file reference<br><b>XII 861/05 sb</b>   | FOR FURTHER ACTION   | See Form PCT/IPEA/416  |
| International application No.<br><b>PCT/DE2004/002297</b>   | International filing date ( <i>day/month/year</i> )<br><b>13.10.2004</b> | Priority date ( <i>day/month/year</i> )<br><b>13.10.2003</b> |
| International Patent Classification (IPC) or national classification and IPC<br><b>A61K33/24, A61P35/00</b> |  |  |
| Applicant<br><b>SALAMA, Zoser, B.</b>   |  |  |

|    |   |  |
|----|---|--|
| 1. | This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.   |  |
| 2. | This REPORT consists of a total of <b>14</b> sheets, including this cover sheet.  |  |
| 3. | This report is also accompanied by ANNEXES, comprising:<br>a. <input type="checkbox"/> ( <i>sent to the applicant and to the International Bureau</i> ) a total of _____ sheets, as follows:<br><input type="checkbox"/> sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).<br><input type="checkbox"/> sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.<br>b. <input type="checkbox"/> ( <i>sent to the International Bureau only</i> ) a total of (indicate type and number of electronic carrier(s)) _____, containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions). |  |
| 4. | This report contains indications relating to the following items:<br><input checked="" type="checkbox"/> Box No. I Basis of the report<br><input type="checkbox"/> Box No. II Priority<br><input checked="" type="checkbox"/> Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability<br><input type="checkbox"/> Box No. IV Lack of unity of invention<br><input checked="" type="checkbox"/> Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement<br><input type="checkbox"/> Box No. VI Certain documents cited<br><input type="checkbox"/> Box No. VII Certain defects in the international application<br><input type="checkbox"/> Box No. VIII Certain observations on the international application  |  |

|   |                                   |
|---|-----------------------------------|
| Date of submission of the demand        | Date of completion of this report |
| Name and mailing address of the IPEA/EP | Authorized officer                |
| Facsimile No.                           | Telephone No.                     |

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Box No. I

Basis of the report

1. With regard to the **language**, this report is based on the international application in the language in which it was filed, unless otherwise indicated under this item.
- ☐ This report is based on translations from the original language into the following language \_\_\_\_\_, which is the language of a translation furnished for the purposes of:
- ☐ international search (Rule 12.3 and 23.1(b))
- ☐ publication of the international application (Rule 12.4)
- ☐ international preliminary examination (Rule 55.2 and/or 55.3)
2. With regard to the **elements** of the international application, this report is based on *(replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report)*:
- ☐ the international application as originally filed/furnished
- ☒ the description:
- pages 1-49 \_\_\_\_\_ as originally filed/furnished
- pages\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_
- pages\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_
- ☒ the claims:
- nos. 1-14 \_\_\_\_\_ as originally filed/furnished
- nos.\* \_\_\_\_\_ as amended (together with any statement) under Article 19
- nos.\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_
- nos.\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_
- ☐ the drawings:
- sheets \_\_\_\_\_ as originally filed/furnished
- sheets\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_
- sheets\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_
- ☐ a sequence listing and/or any related table(s) – see Supplemental Box Relating to Sequence Listing.
3. ☐ The amendments have resulted in the cancellation of:
- ☐ the description, pages \_\_\_\_\_
- ☐ the claims, nos. \_\_\_\_\_
- ☐ the drawings, sheets/figs \_\_\_\_\_
- ☐ the sequence listing (*specify*): \_\_\_\_\_
- ☐ any table(s) related to sequence listing (*specify*): \_\_\_\_\_
4. ☐ This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).
- ☐ the description, pages \_\_\_\_\_
- ☐ the claims, nos. \_\_\_\_\_
- ☐ the drawings, sheets/figs \_\_\_\_\_
- ☐ the sequence listing (*specify*): \_\_\_\_\_
- ☐ any table(s) related to sequence listing (*specify*): \_\_\_\_\_

\* If item 4 applies, some or all of those sheets may be marked "superseded."

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## Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability

The questions whether the claimed invention appears to be novel, to involve an inventive step (to be non obvious), or to be industrially applicable have not been examined in respect of:

☐ the entire international application

☒ claims Nos. 14

because:

☒ the said international application, or the said claims Nos. 14 (in relation to industrial applicability) relate to the following subject matter which does not require an international preliminary examination (*specify*):

Claim 14 relates to subject matter which, in the opinion of this Authority, falls under PCT Rule 67.1(iv). Consequently, no expert opinion has been established in respect of the industrial applicability of the subject matter of said claim (PCT Article 34(4)(a)(i)).

☐ the description, claims or drawings (*indicate particular elements below*) or said claims Nos. \_\_\_\_\_ are so unclear that no meaningful opinion could be formed (*specify*):

☐ the claims, or said claims Nos. \_\_\_\_\_ are so inadequately supported by the description that no meaningful opinion could be formed.

☐ no international search report has been established for said claims Nos. \_\_\_\_\_

☐ the nucleotide and/or amino acid sequence listing does not comply with the standard provided for in Annex C of the Administrative Instructions in that:

the written form

☐ has not been furnished

☐ does not comply with the standard

the computer readable form

☐ has not been furnished

☐ does not comply with the standard

☐ the tables related to the nucleotide and/or amino acid sequence listing, if in computer readable form only, do not comply with the technical requirements provided for in Annex C-bis of the Administrative Instructions.

☐ See Supplemental Box for further details.

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| Box No. V                                 | Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement  |                    |             |             |     |        |         |    |                     |        |         |     |        |             |    |                               |        |                    |     |        |         |    |
|---|--|--------------------|-------------|-------------|-----|--------|---------|----|---------------------|--------|---------|-----|--------|-------------|----|-------------------------------|--------|--------------------|-----|--------|---------|----|
| 1. Statement                              | <table><tr><td rowspan="2">Novelty (N)</td><td>Claims</td><td><u>1-14</u></td><td>YES</td></tr><tr><td>Claims</td><td><u></u></td><td>NO</td></tr><tr><td rowspan="2">Inventive step (IS)</td><td>Claims</td><td><u></u></td><td>YES</td></tr><tr><td>Claims</td><td><u>1-14</u></td><td>NO</td></tr><tr><td rowspan="2">Industrial applicability (IA)</td><td>Claims</td><td><u>See Box III</u></td><td>YES</td></tr><tr><td>Claims</td><td><u></u></td><td>NO</td></tr></table>  | Novelty (N)        | Claims      | <u>1-14</u> | YES | Claims | <u></u> | NO | Inventive step (IS) | Claims | <u></u> | YES | Claims | <u>1-14</u> | NO | Industrial applicability (IA) | Claims | <u>See Box III</u> | YES | Claims | <u></u> | NO |
| Novelty (N)                               | Claims   |                    | <u>1-14</u> | YES         |     |        |         |    |                     |        |         |     |        |             |    |                               |        |                    |     |        |         |    |
|   | Claims   | <u></u>            | NO          |             |     |        |         |    |                     |        |         |     |        |             |    |                               |        |                    |     |        |         |    |
| Inventive step (IS)                       | Claims   | <u></u>            | YES         |             |     |        |         |    |                     |        |         |     |        |             |    |                               |        |                    |     |        |         |    |
|   | Claims   | <u>1-14</u>        | NO          |             |     |        |         |    |                     |        |         |     |        |             |    |                               |        |                    |     |        |         |    |
| Industrial applicability (IA)             | Claims   | <u>See Box III</u> | YES         |             |     |        |         |    |                     |        |         |     |        |             |    |                               |        |                    |     |        |         |    |
|   | Claims   | <u></u>            | NO          |             |     |        |         |    |                     |        |         |     |        |             |    |                               |        |                    |     |        |         |    |
| 2. Citations and explanations (Rule 70.7) | <p>1 Reference is made to the following documents:</p> <p>D1: DATABASE WPI Section Ch, Week 199815 Derwent Publications Ltd., London, GB; Class B05, AN 1998-167679 XP002321279 &amp; RU 2 086 261 C1 (UNIV MOSC LOMONOSOV CHEM FACULTY) 10 August 1997 (1997-08-10)</p> <p>D2: TOBE M L ET AL: "Structure, activity, reactivity and solubility relationships of platinum diamine complexes" J. CLIN. HEMATOL. ONCOL. 1977, Vol. 7, No. 1, 1977, pages 114-137, XP008027197</p> <p>D3: PRESNOV, M. A. ET AL: "The antitumor activity of oxoplatinum" NEOPLASMA (1985), 32(1), 73-83, 1985, XP008027150</p> <p>D4: PRESNOV, M. A. ET AL: "Antitumor properties of cis-dichlorodiamminedi hydroxyplatinum(IV)" IZVESTIYA AKADEMII NAUK SSSR, SERIYA BIOLOGICHESKAYA (1986), (3), 417-28, 1986, XP008027144</p> <p>D5: ORR, R. M. ET AL: "Evaluation of novel platinum (II), and platinum (IV) ammine/amine complexes in L1210 murine leukemia cell lines</p> |                    |             |             |     |        |         |    |                     |        |         |     |        |             |    |                               |        |                    |     |        |         |    |

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| Box No. V | Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement   |
|-----------|---|
|           | <p>sensitive and resistant to cisplatin and tetraplatin" CELLULAR PHARMACOLOGY (1993), 1(1), 17-23, 1993, XP008027140</p> <p>D6: BRANDON R J ET AL: "Synthesis, characterization, and properties of a group of platinum (IV) complexes." JOURNAL OF MEDICINAL CHEMISTRY. UNITED STATES JUL 1984, Vol. 27, No. 7, July 1984 (1984-07), pages 861-865, XP001184796 ISSN: 0022-2623</p> <p>D7: PRESNOV, M. A. ET AL: "Cycloplatam and oxoplatin - the new antitumor platinum compounds of the second generation" ARCHIV FUER GESCHWULSTFORSCHUNG (1988), 58(1), 43-9, 1988, XP008027148</p> <p>D8: KELLAND, L. R. ET AL: "Structure-activity relationships in a series of novel platinum(II) and platinum(IV) ammine-amine complexes evaluated against a panel of human ovarian carcinoma cell lines" JOURNAL OF CELLULAR PHARMACOLOGY (1992), 2(6), 331-42, 1992, XP008027138</p> <p>D9: KEPRTOVÁ J ET AL: "The effect of second generation platinum cytostatics on mammalian cell proliferation." NEOPLASMA. CZECHOSLOVAKIA 1990, Vol. 37, No. 2, 1990, pages 121-129, XP008027200 ISSN: 0028-2685</p> <p>D10: BLATTER E E ET AL: "Interaction of the antitumor agents cis,cis,trans PtIV(NH3)2Cl2(OH)2 and cis,cis,trans-PtIV[(CH3)2CHNH2]2Cl2(OH)2 and their reduction products with PM2 DNA." BIOCHEMISTRY. UNITED STATES 9 OCT 1984,</p> |

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|           | <p>Vol. 23, No. 21, 9. October 1984<br/>(1984-10-09), pages 4817-4820, XP001184794<br/>ISSN: 0006-2960</p> <p>D11: KONOVALOVA, A. L. ET AL: "Antineoplastic effect of complex platinum(IV) compounds"<br/>DOKLADY AKADEMII NAUK SSSR (1977), 234(1), 223-6 [BIOCHEM.], 1977, XP008027146</p> <p>D12: YEN, TRAN CONG ET AL: "Study on potential of prolongation of survival in mice with cancers (before and after amputation) treated with cis dichlorodiamine trans-dihydroxo platinum(IV)" TAP CHI DUOC HOC (2001), (2), 19-21, 2001, XP001184196</p> <p>D13: TRAN, CONG YEN ET AL: "Action of platinum(IV) complexes on sarcoma TG-180 cells in vivo"<br/>TAP CHI DUOC HOC (1998), (6), 18-20, 1998, XP001184197</p> <p>D14: NGUYEN, THI QUY ET AL: "The antitumor effectiveness of a platinum(IV) compound in Swiss mice" TAP CHI DUOC HOC (1998), (3), 21-23, 1998, XP001184198</p> <p>D15: AREF'EVA A K ET AL: "[Antitumor effectiveness and nephrotoxicity of oxoplatinum]" VOPROSY ONKOLOGII. USSR 1990, Vol. 36, No. 3, 1990, pages 331-334, XP008027204 ISSN: 0507-3758</p> <p>D16: KELLAND L R ET AL: "A novel trans-platinum coordination complex possessing in vitro and in vivo antitumor activity." CANCER RESEARCH. UNITED STATES 1 NOV 1994, Vol. 54, No. 21, 1 November 1994 (1994-11-01), pages 5618-5622, XP001161097 ISSN: 0008-5472</p> <p>D17: WO 03/066526 A (IMMCONT GMBH &amp; KG</p> |

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|           | <p>PHARMOPLATIN; MELNIKOV MIKHAIL YAKOVLEVICH<br/>(RU);) 14 August 2003 (2003-08-14)</p> <p>D18: EP 0 339 772 A (JOHNSON MATTHEY PLC)<br/>2 November 1989 (1989-11-02)</p> <p>D19: US 4 119 653 A (TOBE MARTIN LESLIE ET AL)<br/>10 October 1978 (1978-10-10)</p> <p>D20: VOLLANO J F ET AL: "DNA BREAKAGE BY A<br/>PERHYDRATE COMPLEX OF CIS,CIS,TRANS-<br/>PTIVCL<sub>2</sub>(NH<sub>3</sub>)<sub>2</sub>(OH)<sub>2</sub>" JOURNAL OF THE AMERICAN<br/>CHEMICAL SOCIETY, XX, XX, Vol. 106, No. 9,<br/>1984, pages 2732-2733, XP001187504<br/>ISSN: 0002-7863</p> <p>D21: NOVAKOVA, OLGA ET AL: "DNA interactions of<br/>antitumor platinum(IV) complexes" EUROPEAN<br/>JOURNAL OF BIOCHEMISTRY (1995), 228(3),<br/>616-24, 1995, XP008027141</p> <p>D22: BRABEC V ET AL: "TETRAVALENT PLATINUM<br/>COMPLEXES CAN EXERT THEIR ANTITUMOR EFFECT<br/>VIA DIRECT REACTION WITH DNA" STUDIA<br/>BIOPHYSICA, Vol. 114, No. 1-3, 1986,<br/>pages 199-207, XP008027208 7TH CMEA (COUNCIL<br/>ON MUTUAL ECONOMIC AID) SYMPOSIUM ON<br/>BIOPHYSICS OF NUCLEIC ACIDS AND PROTEINS, BRN<br/>ISSN: 0081-6337</p> <p>D23: GUTSCHE, W. ET AL: "Structure-activity<br/>relationships of active antineoplastic<br/>platinum(II) an (IV) coordination compounds"<br/>ARCHIV FUER GESCHWULSTFORSCHUNG (1989),<br/>59(4), 233-8, 1989, XP008027147</p> <p>D24: GIANDOMENICO C M ET AL: "CARBOXYLATION OF<br/>KINETICALLY INERT PLATINUM(IV) HYDROXY<br/>COMPLEXES. AN ENTREE INTO ORALLY ACTIVE</p> |

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|           | <p>PLATINUM(IV) ANTITUMOR AGENTS" METAL<br/>CONSTRUCTION, CAMBRIDGE, GB, Vol. 34, 1995,<br/>pages 1015-1021, XP001005596</p>   |
| 2         | CLAIMS 1-14  |
| 2.1       | <p>The present application does not meet the requirements of PCT Article 33(1) because the subject matter of claims 1-14 is not inventive (PCT Article 33(3)).</p> <p>Document D1 discloses (see the passages of text cited in the search report) compositions that can be administered perorally and contain 10-25 wt.% cis-diaminodichloro-trans-dihydroxy-platinum (IV) (oxoplatin), 25-55 wt.% sodium carbonate and 40-60 wt.% sodium alginate, for treating tumours, for example leukaemia, adenocarcinoma, melanoma, ovarian cancer, sarcoma and hepatoma. D1 also indicates that the orally administrable composition is not nephrotoxic.</p> |
| 2.2       | <p>The present application does not meet the requirements of PCT Article 33(1) because the subject matter of claims 1-14 is not inventive (PCT Article 33(3)).</p> <p>D2 discloses the antitumour effect of cis-diammonium-cis-dichloro-trans-dihydroxyplatinum (IV) (oxoplatin), a compound as per claims 1-14. D2 indicates that oxoplatin is an antineoplastic agent that has a broad activity spectrum and can</p>   |



| Box No. V | Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement  |
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|           | <p>be administered in a variety of ways, for example intraperitoneally, intravenously, intramuscularly and subcutaneously via bone or via the rectum; see the passages of text cited in the search report. The subject matter of claims 1-14 is therefore not inventive in relation to D2 because a person skilled in the art would choose for each administration mode the best possible galenic administration method and would produce, for example, forms of administration such as tablets, suppositories, injection solutions and/or infusion solutions according to the field of expertise.</p> |
| 2.3       | <p>The present application does not meet the requirements of PCT Article 33(1) because the subject matter of claims 1-14 is not inventive (PCT Article 33(3)).</p> <p>Document D3 discloses (see the passages of text cited in the search report) the intraperitoneal administration of oxoplatin as an oil suspension in ground nut oil and the antitumour effect thereof on various tumours.</p>   |
| 2.4       | <p>The present application does not meet the requirements of PCT Article 33(1) because the subject matter of claims 1-14 is not inventive (PCT Article 33(3)).</p> <p>Document D4 discloses the antitumour effect of oxoplatin, a compound as per claims 1-14. D4 indicates that oxoplatin is an antineoplastic</p>  |

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|-----------|--|
|           | <p>agent that has a broad activity spectrum and can be administered in a variety of ways, for example intravenously, subcutaneously, intramuscularly, orally and rectally; see the passages of text cited in the search report. The subject matter of claims 1-14 is therefore not inventive in relation to D4. The reasons are the same as those given under point 2.2.</p>   |
| 2.5       | <p>The present application does not meet the requirements of PCT Article 33(1) because the subject matter of claims 1-14 is not inventive (PCT Article 33(3)).</p> <p>Document D5 discloses (see the passages of text cited in the search report) the antitumour effect of derivatives of cis-diammonium-cis-dichloro-trans-dihydroxyplatinum (IV); see the passages of text cited in the search report and in particular table 5. The subject matter of claims 1-14 is therefore not inventive in relation to D5.</p> |
| 2.6       | <p>The present application does not meet the requirements of PCT Article 33(1) because the subject matter of claims 1-14 is not inventive (PCT Article 33(3)).</p> <p>Document D7 discloses (see the passages of text cited in the search report) the antitumour effect of iproplatin, a derivative of cis-diammonium-cis-dichloro-trans-dihydroxyplatinum (IV), and of oxoplatin, as well as injection solutions that</p>   |

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|-----------|---|
|           | <p>contain those agents and are used to treat tumours. The subject matter of claims 1-14 is therefore not inventive in relation to D7.</p> <p>2.7 The present application does not meet the requirements of PCT Article 33(1) because the subject matter of claims 1-14 is not inventive (PCT Article 33(3)).</p> <p>Document D17 discloses (see the passages of text cited in the search report) perorally administered pharmaceutical preparations (tablets) that contain cis-diammonium-cis-dichloro-trans-dihydroxyplatinum (IV), for treating tumours, for example leukaemia, adenocarcinoma, melanoma, cervical cancer, sarcoma and hepatoma. The selection of additives which are common in pharmaceuticals, for example fillers, binding agents, carrier substances and auxiliary breakdown agents, does not involve an inventive step given the lack of special technical effect thereof.</p> <p>2.8 The present application does not meet the requirements of PCT Article 33(1) because the subject matter of claims 1-14 is not inventive (PCT Article 33(3)).</p> <p>Documents D6, D8-D16 and D18-D24 disclose additional pharmaceutical agents which comprise cis-diammonium-cis-dichloro-trans-dihydroxyplatinum (IV), salts and/or derivatives thereof and the use thereof for treating tumours;</p> |

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|-----------|---|
|           | <p>see the passages of text cited in the search report. The subject matter of claims 1-14 is therefore not inventive in relation to D6, D8-D16 and D18-D24.</p>   |
| 3         | <p>CLAIMS 1-14</p> <p>Claims 1-14 do not contain any features which, in combination with the features of any claim to which they refer, meet the PCT requirements for inventive step:</p>   |
| 3.1       | <p>The current invention can be considered to address the problem of treating tumours and of the associated preparation of pharmaceutical agents in the form of capsules, tablets, sugar-coated tablets, suppositories, salves, injection solutions and/or infusion solutions.</p>  |
| 3.2       | <p>It is known from D1-D24 that cis-diammonium-cis-dichloro-trans-dihydroxyplatinum (IV) and the salts and/or derivatives thereof are antineoplastic agents that have a broad activity spectrum and are used, for example, to treat cancer, for example leukaemia, adenocarcinoma, melanoma, cervical cancer, sarcoma and hepatoma. It is also known that oxoplatin and the salts and/or derivatives thereof are applied in a variety of ways, for example intravenously, subcutaneously, intramuscularly, orally and rectally, which is made possible by forms of administration such as tablets, suppositories,</p> |

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|           | <p>injection solutions and/or infusion solutions.</p> <p>3.3 The difference between the current application and documents D1-D24 lies in the preparation of alternative forms of administration. It is obvious to a person skilled in the art to use the additives which are common in pharmaceuticals according to the form of administration, for example fillers, binding agents, carrier substances, auxiliary break-down agents, etc., without thereby being inventive. In addition, the advantages of each form of administration, for example reduced nephrotoxicity, are known from D1-D5, D7, D15 and D17.</p> <p>3.4 The injection or infusion solution claimed in claims 1, 4 and 14 differs from D2, for example, by the use of a carrier substance which consists of mannitol and water instead of a saline solution. The advantage of using mannitol in combination with oxoplatin (reduced nephrotoxicity) is disclosed in D15.</p> <p>3.5 Similarly, an inventive step can be acknowledged in relation to claims 1-14 only when all the claimed pharmaceutical preparations provide a proven solution to the problem addressed by the invention. Since the advantages of the individual, specifically claimed forms of administration in relation to the prior art (consisting of additives which are common in pharmaceuticals, for example fillers, binding</p> |

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|           | <p>agents, carrier substances, auxiliary break-down agents) has not been credibly demonstrated, an inventive step cannot be acknowledged in relation to those specifically claimed forms of administration.</p> |